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GM 2841
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PATENT

Attorney Docket No.: P3D5-US

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Michelle White
Michelle White

#12
T. BELL
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of: Eldridge et al.

Application No.: 09/747,118

Filing Date: December 22, 2000

For: ELECTRICAL CONTACT
STRUCTURES FORMED BY
CONFIGURING A FLEXIBLE WIRE TO
HAVE A SPRINGABLE SHAPE AND
OVERCOATING THE WIRE WITH AT
LEAST ONE LAYER OF A RESILIENT
CONDUCTIVE MATERIAL, METHODS
OF MOUNTING THE CONTACT
STRUCTURES TO ELECTRONIC
COMPONENTS, AND APPLICATIONS
FOR EMPLOYING THE CONTACT
STRUCTURES

Examiner: J. Alcala

Group Art Unit: 2841

INFORMATION DISCLOSURE STATEMENT (IDS)

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed on an attached modified Form PTO/SB/08A is information known to applicant(s).
Copies of the cited references are not being provided at this time, since they are a part of the record
in the parent Application No. 08/452,255, filed May 26, 1995, to which this application claims priority.

Applicants respectfully request that the listed information be considered by the Examiner
and be made of record in the above-identified application. The Examiner is requested to initial and
return the attached modified Form PTO/SB/08A in accordance with MPEP §609.

PATENT
Attorney Docket No.: P3D5-US

This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56.

This statement qualifies under 37 C.F.R. §1.97, subsection (b) because (check all that apply):

(1) It is being filed within 3 months of the application filing date (other than the filing date of a continued prosecution application under §1.53(d))
-- OR --

(2) It is being filed within 3 months of entry of a national stage
-- OR --

(3) It is being filed before the mail date of the first Office Action on the merits
-- OR --

(4) It is being filed before the mail date of the first Office Action after the filing of a request for continued examination under §1.114.

37 C.F.R. §1.97(c). If this statement is being filed after the latest of: (1) three months beyond the filing date of a national application; (2) three months beyond the date of entry of the national stage as set forth in §1.491 in an international application; (3) the mailing date of a first Office action on the merits, or (4) the mailing date of a first Office Action after the filing of a request for continued examination under §1.114, but before the mailing date of the earlier of a final office action under §1.113, a notice of allowance under §1.311, or an action that otherwise closes prosecution in the application, then:

a statement as specified in §1.97(e) is provided below; **or**

a fee of \$180.00 as set forth in §1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.

37 C.F.R. §1.97(d). If this statement is being filed after the mailing date of the earlier of a final office action under §1.113, a notice of allowance under §1.311, or an action that otherwise closes prosecution in the application, but before payment of the issue fee, then:

A. a statement as specified in §1.97(e) is provided below; **and**

B. a fee of \$180.00 as set forth in §1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.

PATENT
Attorney Docket No.: P3D5-US

Fee Authorization. Applicants hereby authorize the Commissioner to charge the above fee of \$180.00 to Deposit Account No. 50-0285 (Order No. P3D5-US). Although Applicants believe that no fee is due in connection with the filing of this Information Disclosure Statement, the Commissioner is hereby authorized to charge any fees due, or credit any overpayment associated, with this communication to Deposit Account No. 50-0285 (order no. P3D5-US).

Respectfully submitted,

By: 

N. Kenneth Burraston
Reg. No. 39,923

Date: May 13, 2002

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Modified Form PTO/SB/08A

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1

of

2

<i>Complete If Known</i>	
Application Number	09/747,118
Filing Date	12/22/2000
First Named Inventor	Eldridge et al.
Group Art Unit	2841
Examiner Name	J. Alcala

Attorney Docket No. P3D5-US

O I P E
JUN 05 2002
USPTO TRADEMARK OFFICE

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant	Publication Date	Relevant Portions
		Number	Kind Code ²			
1	3271851			Hays	9/1996	
2	3753665			McCary et al.	8/1973	
3	3844909			McCary et al.	10/1974	
4	4659437			Shiba et al.	4/1987	
5	4764848			Simpson	8/1988	
6	4893172			Matsumoto et al.	1/1990	
7	4955523			Carliomagno et al.	9/1990	
8	4998885			Beaman	3/1991	
9	5037023			Akiyama et al.	8/1991	
10	5045975			Cray et al.	9/1991	
11	5189507			Carliomagno et al.	2/1993	
12	5210939			Malik et al.	5/1993	
13	5294039			Pai et al.	3/1994	
14	5309324			Herandez et al.	5/1994	
15	5455390			DiStefano et al.	10/1992	
16	5476211			Khandros	12/1992	
17	5518939			DiStefano et al.	5/1993	
18	5601740			Eldridge et al.	2/1997	
19	5608966			Donner et al.	3/1997	
20	5665654			Stansbury	9/1997	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant	Publication Date	Relevant Portions	T ⁶
		Office ³	Number ⁴	Kind Code ⁵				
21	DE	2354256				10/1973		
22	DE	2540321				9/1975		
23	DE	2618867				4/1976		
24	DE	2652077				5/1978		
25	DE	3129568				4/1982		
26	DE	3704200				8/1988		

Examiner Signature	Date Considered
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

2

of

3

Complete If Known	
Application Number	09/747,118
Filing Date	12/22/2000
First Named Inventor	Eldridge et al.
Group Art Unit	2841
Examiner Name	J. Alcala

Attorney Docket No. P3D5-US

FOREIGN PATENT DOCUMENTS

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		Office ³	Number ⁴	Kind Code ⁵			
	27	DE	3709222		9/1988		
	28	DE	3744099		2/1989		
	29	DE	4232745		3/1994		
	30	EP	0 002 166		5/1979		
	31	EP	0 205 190		12/1986		
	32	EP	0 396248		11/1990		
	33	EP	0432361		6/1991		
	34	EP	0500074		8/1992		
	35	EP	0528367		2/1993		
	36	EP	0593966		4/1994		
	37	EP	0610631		8/1994		
	38	EP	0642163		3/1995		
	39	FR	2 622 741		5/1989		
	40	FR	2643753		8/1990		
	41	JP	56021354		2/1981		
	42	JP	57012543		1/1982		
	43	JP	60097655		11/1983		
	44	JP	59155161		9/1984		
	45	JP	59211253		11/1984		
	46	JP	60236252		11/1985		
	47	JP	61051838		3/1986		
	48	JP	61160958		7/1986		
	49	JP	61170054		7/1986		
	50	JP	61287254		12/1986		
	51	JP	61291991		12/1986		
	52	JP	62097360		5/1987		
	53	JP	62105459		5/1987		
	54	JP	62113457		5/1987		
	55	JP	62120057		6/1987		
	56	JP	02034949		2/1990		
	57	JP	02183538		7/1990		
	58	JP	3142847		6/1991		
	59	JP	05259334		10/1993		

Examiner Signature	Date Considered
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/747,118
(use as many sheets as necessary)				Filing Date	12/22/2000
Sheet	3	of	3	First Named Inventor	Eldridge et al.
				Group Art Unit	2841
				Examiner Name	J. Alcala
				Attorney Docket No. P3D5-US	

OTHER PRIOR ART - NONPATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published		T ²
	60	"Method of Testing Chips and Joining Chips to Substrates" Research Disclosure, No. 322, p.130, February 1991.		
	61	"Bitmetal VLSI Chip Interconnections" IBM Technical Disclosure Bulletin, Vol.29, No. 11, pp. 5021-5022, April 1987.		
	62	"Method for Large Board Engineering Changes and Repair", IBM Technical Disclosure Bulletin, Vol.37, No. 02B, pp. 583-585, February 1994.		
	63	"Engineering Change Interposer" IBM Technical Disclosure Bulletin, Vol.37, No. 9, p.157, September 1994.		
	64	Ensworth, G.B., "Method of Testing Chips and Joining Chips to Substrates, 2244 Research Disclosure, No. 322, February 1991.		
	65	"Bare-Chip-Attachment Method Spread I/O, Permits Pre-testing", 2328 Electronic Design, Vol.39, No. 10, May 23, 1991.		
	66	IBM Technical Disclosure Bulletin, Vol. 29, No. 8, p.3754, January 1987.		

Examiner Signature	Date Considered
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P3D5-US



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Michelle White
Michelle White

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of: Eldridge et al.

Application No.: 09/747,118

Filing Date: December 21, 2000

For: ELECTRICAL CONTACT STRUCTURES
FORMED BY CONFIGURING A FLEXIBLE
WIRE TO HAVE A SPRINGABLE SHAPE
AND OVERCOATING THE WIRE WITH AT
LEAST ONE LAYER OF A RESILIENT
CONDUCTIVE MATERIAL, METHODS OF
MOUNTING THE CONTACT
STRUCTURES TO ELECTRONIC
COMPONENTS, AND APPLICATIONS
FOR EMPLOYING THE CONTACT
STRUCTURES

Examiner: J. Alcala

Group Art Unit: 2841

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NOTICE OF RELATED PATENTS AND APPLICATIONS

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Applicants

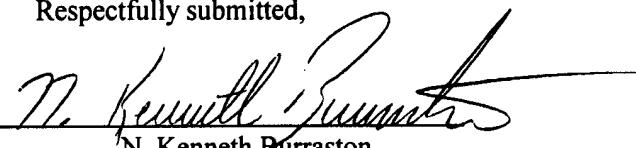
wish to draw the Examiner's attention to the following commonly owned applications and patents (and the art cited therein), whose subject matter may be deemed related to the subject matter of the above-identified application.

US pat. appl. serial no.: 10/035,633	(P3C1-US)	filed December 28, 2001
US pat. appl. serial no.: 09/746,960	(P3D4-US)	filed December 21, 2000
US pat. appl. serial no.: 09/592,487	(P61D2-US)	filed June 8, 2000

PATENT
P3D5-US

US pat. no.: 6,215,670	(P1D1C2-US)	issued	April 10, 2001
US pat. no.: 6,242,803	(P2D3-US)	issued	June 5, 2001
US pat. no.: 5,926,951	(P2D6-US)	issued	July 27, 1999
US pat. no.: 6,184,587	(P2D10-US)	issued	February 6, 2001
US pat. no.: 6,336,269	(P3-US)	issued	January 8, 2002
US pat. no.: 5,998,864	(P31-US)	issued	December 7, 1999
US pat. no.: 6,110,823	(P61-US)	issued	August 29, 2000

Respectfully submitted,

By: 

N. Kenneth Burraston

Reg. No. 39,923

Date: May 14, 2002

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